

PLUS Search Results for S/N 10625933, Searched February 16, 2005

The Patent Linguistics Utility System (PLUS) is a USPTO automated search system for U.S. Patents from 1971 to the present. PLUS is a query-by-example search system which produces a list of patents that are most closely related linguistically to the application searched. This search was prepared by the staff of the Scientific and Technical Information Center, SIRA.

RE35790  
6478096  
6640908  
4992787  
6732052  
6059051  
6059051  
5679894  
5842149  
6021377  
6233524  
5410303  
5602541  
6026913  
6176323  
6362619  
6427530  
6609568  
6672386  
5269383  
5272680  
5831549  
5873420  
5969638  
6020741  
4351037  
4628495  
4630243  
5398546  
5581024  
6028534  
6353321  
6421298  
6577244  
6662110  
6843117  
4507735  
4578675  
6109368  
5952569  
4282523  
5826654  
5738178  
6129160  
6215120  
6215120  
4571693  
4928775  
4958689  
5351765

10625933\_CLS.txt  
Most Frequently Occurring Classifications of Patents Returned  
From A Search of 10625933 on February 16, 2005

Original Classifications

4 702/9  
3 367/85  
2 73/152.01  
2 73/152.03  
2 175/19  
2 175/40  
2 175/50  
2 175/76  
2 250/256  
2 340/853.3  
2 702/6

Cross-Reference Classifications

6 175/50  
6 367/83  
5 73/152.46  
5 175/40  
5 175/45  
4 73/152.52  
3 166/250.01  
3 175/325.3  
3 175/61  
3 324/369  
3 340/854.4  
3 702/9  
2 73/152.03  
2 73/152.18  
2 166/66  
2 175/107  
2 175/269  
2 175/324  
2 175/385  
2 175/406  
2 250/266  
2 324/323  
2 324/339  
2 340/853.2  
2 340/853.4  
2 340/853.6  
2 340/854.3  
2 340/854.5  
2 340/855.4  
2 340/856.1  
2 340/856.3  
2 367/81  
2 702/6  
2 702/7

Combined Classifications

8 175/50  
7 175/40  
7 367/83  
7 702/9  
6 73/152.46  
6 175/45  
4 73/152.03  
4 73/152.52  
4 166/250.01

10625933\_CLS.txt

4 175/61  
4 702/6  
3 73/152.01  
3 175/107  
3 175/325.3  
3 324/339  
3 324/369  
3 340/854.4  
3 367/85  
2 73/152.18  
2 73/152.44  
2 166/66  
2 175/19  
2 175/269  
2 175/324  
2 175/385  
2 175/39  
2 175/406  
2 175/76  
2 250/256  
2 250/266  
2 324/323  
2 340/853.1  
2 340/853.2  
2 340/853.3  
2 340/853.4  
2 340/853.6  
2 340/854.3  
2 340/854.5  
2 340/854.6  
2 340/854.8  
2 340/855.4  
2 340/856.1  
2 340/856.3  
2 367/81  
2 702/7

Titles of Most Frequently Occurring Classifications of Patents Returned  
From A Search of 10625933 on February 16, 2005

- 8 175/50 (2 OR, 6 XR)  
Class 175 : BORING OR PENETRATING THE EARTH  
175/40 WITH SIGNALING, INDICATING, TESTING OR  
MEASURING  
175/50 .Indicating, testing or measuring a condition  
of the formation
- 7 175/40 (2 OR, 5 XR)  
Class 175 : BORING OR PENETRATING THE EARTH  
175/40 WITH SIGNALING, INDICATING, TESTING OR  
MEASURING
- 7 367/83 (1 OR, 6 XR)  
Class 367 : COMMUNICATIONS, ELECTRICAL: ACOUSTIC WAVE  
SYSTEMS AND DEVICES  
367/81 WELLBORE TELEMETERING  
367/83 .Through well fluids
- 7 702/9 (4 OR, 3 XR)  
Class 702 : DATA PROCESSING: MEASURING, CALIBRATING, OR  
TESTING  
702/1 MEASUREMENT SYSTEM IN A SPECIFIC ENVIRONMENT  
702/2 .Earth science  
702/6 ..well logging or borehole study  
702/9 ...Drilling
- 6 73/152.46 (1 OR, 5 XR)  
Class 073 : MEASURING AND TESTING  
73/152.01 BOREHOLE OR DRILLING (E.G., DRILL LOADING  
FACTOR, DRILLING RATE, RATE OF FLUID FLOW)  
73/152.43 .During drilling  
73/152.46 ..Downhole measurement
- 6 175/45 (1 OR, 5 XR)  
Class 175 : BORING OR PENETRATING THE EARTH  
175/40 WITH SIGNALING, INDICATING, TESTING OR  
MEASURING  
175/45 .Tool position direction or inclination  
measuring or indicating within the bore
- 4 73/152.03 (2 OR, 2 XR)  
Class 073 : MEASURING AND TESTING  
73/152.01 BOREHOLE OR DRILLING (E.G., DRILL LOADING  
FACTOR, DRILLING RATE, RATE OF FLUID FLOW)  
73/152.02 .Formation logging (e.g., borehole studies of  
pressure derivatives or of pressure-temperature  
derivatives)  
73/152.03 ..During drilling
- 4 73/152.52 (0 OR, 4 XR)  
Class 073 : MEASURING AND TESTING  
73/152.01 BOREHOLE OR DRILLING (E.G., DRILL LOADING  
FACTOR, DRILLING RATE, RATE OF FLUID FLOW)  
73/152.51 .Pressure measurement  
73/152.52 ..Plural diverse measurements
- 4 166/250.01 (1 OR, 3 XR)  
Class 166 : WELLS  
166/244.1 PROCESSES

- 166/250.01 .with indicating, testing, measuring or locating
- 4 175/61 (1 OR, 3 XR)  
 Class 175 : BORING OR PENETRATING THE EARTH  
 175/57 PROCESSES  
 175/61 .Boring curved or redirected bores
- 4 702/6 (2 OR, 2 XR)  
 Class 702 : DATA PROCESSING: MEASURING, CALIBRATING, OR TESTING  
 702/1 MEASUREMENT SYSTEM IN A SPECIFIC ENVIRONMENT  
 702/2 .Earth science  
 702/6 ..Well logging or borehole study
- 3 73/152.01 (2 OR, 1 XR)  
 Class 073 : MEASURING AND TESTING  
 73/152.01 BOREHOLE OR DRILLING (E.G., DRILL LOADING FACTOR, DRILLING RATE, RATE OF FLUID FLOW)
- 3 175/107 (1 OR, 2 XR)  
 Class 175 : BORING OR PENETRATING THE EARTH  
 175/92 WITH BELOW-GROUND TOOL DRIVE PRIME MOVER  
 175/107 .Fluid rotary type
- 3 175/325.3 (0 OR, 3 XR)  
 Class 175 : BORING OR PENETRATING THE EARTH  
 175/320 WITH TOOL SHAFT DETAIL  
 175/325.1 .Shaft carried guide or protector  
 175/325.2 ..Coupled between shaft sections or bit and shaft section  
 175/325.3 ...With bore wall engaging means rotatable relative to shaft section (e.g., with bearings)
- 3 324/339 (1 OR, 2 XR)  
 Class 324 : ELECTRICITY: MEASURING AND TESTING  
 324/323 OF GEOPHYSICAL SURFACE OR SUBSURFACE IN SITU  
 324/332 .With radiant energy or nonconductive-type transmitter  
 324/334 ..With separate pickup  
 324/338 ...Within a borehole  
 324/339 ....By induction logging
- 3 324/369 (0 OR, 3 XR)  
 Class 324 : ELECTRICITY: MEASURING AND TESTING  
 324/323 OF GEOPHYSICAL SURFACE OR SUBSURFACE IN SITU  
 324/347 .Using electrode arrays, circuits, structure, or supports  
 324/354 ..Coupled to artificial current source  
 324/357 ...Including separate pickup of generated fields or potentials  
 324/366 ....For well logging  
 324/369 .....while drilling
- 3 340/854.4 (0 OR, 3 XR)  
 Class 340 : COMMUNICATIONS: ELECTRICAL  
 340/853.1 WELLBORE TELEMETERING OR CONTROL (E.G., SUBSURFACE TOOL GUIDANCE, DATA TRANSFER, ETC.)  
 340/854.3 .Using a specific transmission medium (e.g., conductive fluid, annular spacing, etc.)  
 340/854.4 ..Drill string or tubing support signal conduction

- 3 367/85 (3 OR, 0 XR)  
 Class 367 : COMMUNICATIONS, ELECTRICAL: ACOUSTIC WAVE  
 SYSTEMS AND DEVICES  
 367/81 WELLBORE TELEMETERING  
 367/83 .Through well fluids  
 367/85 ..Linear valve control
- 2 73/152.18 (0 OR, 2 XR)  
 Class 073 : MEASURING AND TESTING  
 73/152.01 BOREHOLE OR DRILLING (E.G., DRILL LOADING  
 FACTOR, DRILLING RATE, RATE OF FLUID FLOW)  
 73/152.18 .Fluid flow measuring or fluid analysis
- 2 73/152.44 (1 OR, 1 XR)  
 Class 073 : MEASURING AND TESTING  
 73/152.01 BOREHOLE OR DRILLING (E.G., DRILL LOADING  
 FACTOR, DRILLING RATE, RATE OF FLUID FLOW)  
 73/152.43 .During drilling  
 73/152.44 ..Drill depth rate
- 2 166/66 (0 OR, 2 XR)  
 Class 166 : WELLS  
 166/65.1 WITH ELECTRICAL MEANS  
 166/66 .Indicating
- 2 175/19 (2 OR, 0 XR)  
 Class 175 : BORING OR PENETRATING THE EARTH  
 175/19 BORING WITHOUT EARTH REMOVAL (I.E., COMPACTING  
 EARTH FORMATION)
- 2 175/269 (0 OR, 2 XR)  
 Class 175 : BORING OR PENETRATING THE EARTH  
 175/263 CUTTER ELEMENT Laterally SHIFTABLE BELOW GROUND  
 (E.G., EXPANSIBLE)  
 175/267 .Cutter element shifted by fluid pressure  
 175/269 ..Fluid pressure acts against spring biased  
 part
- 2 175/324 (0 OR, 2 XR)  
 Class 175 : BORING OR PENETRATING THE EARTH  
 175/320 WITH TOOL SHAFT DETAIL  
 175/324 .Means other than tool structure to induce  
 fluent flow
- 2 175/385 (0 OR, 2 XR)  
 Class 175 : BORING OR PENETRATING THE EARTH  
 175/327 BIT OR BIT ELEMENT  
 175/385 .Bit with leading portion (e.g., pilot) forming  
 smaller diameter initial bore
- 2 175/39 (1 OR, 1 XR)  
 Class 175 : BORING OR PENETRATING THE EARTH  
 175/39 WITH BIT WEAR SIGNAL GENERATING
- 2 175/406 (0 OR, 2 XR)  
 Class 175 : BORING OR PENETRATING THE EARTH  
 175/327 BIT OR BIT ELEMENT  
 175/406 .Noncutting portion forwardly of cutting  
 portion (e.g., reamer)
- 2 175/76 (2 OR, 0 XR)  
 Class 175 : BORING OR PENETRATING THE EARTH  
 175/73 MEANS TRAVELING WITH TOOL TO CONSTRAIN TOOL TO

## BORE ALONG CURVED PATH

- 175/76 .Axially spaced opposed bore wall engaging guides
- 2 250/256 (2 OR, 0 XR)  
 Class 250 : RADIANT ENERGY  
 250/253 GEOLOGICAL TESTING OR IRRADIATION  
 250/256 .well testing apparatus and methods
- 2 250/266 (0 OR, 2 XR)  
 Class 250 : RADIANT ENERGY  
 250/253 GEOLOGICAL TESTING OR IRRADIATION  
 250/256 .well testing apparatus and methods  
 250/265 ..Plural detectors  
 250/266 ...with spacing or direction of detectors
- 2 324/323 (0 OR, 2 XR)  
 Class 324 : ELECTRICITY: MEASURING AND TESTING  
 324/323 OF GEOPHYSICAL SURFACE OR SUBSURFACE IN SITU
- 2 340/853.1 (1 OR, 1 XR)  
 Class 340 : COMMUNICATIONS: ELECTRICAL  
 340/853.1 WELLBORE TELEMETERING OR CONTROL (E.G.,  
 SUBSURFACE TOOL GUIDANCE, DATA TRANSFER, ETC.)
- 2 340/853.2 (0 OR, 2 XR)  
 Class 340 : COMMUNICATIONS: ELECTRICAL  
 340/853.1 WELLBORE TELEMETERING OR CONTROL (E.G.,  
 SUBSURFACE TOOL GUIDANCE, DATA TRANSFER, ETC.)  
 340/853.2 .Diagnostic monitoring or detecting operation  
 of communications equipment or signal
- 2 340/853.3 (2 OR, 0 XR)  
 Class 340 : COMMUNICATIONS: ELECTRICAL  
 340/853.1 WELLBORE TELEMETERING OR CONTROL (E.G.,  
 SUBSURFACE TOOL GUIDANCE, DATA TRANSFER, ETC.)  
 340/853.3 .selective control of subsurface equipment
- 2 340/853.4 (0 OR, 2 XR)  
 Class 340 : COMMUNICATIONS: ELECTRICAL  
 340/853.1 WELLBORE TELEMETERING OR CONTROL (E.G.,  
 SUBSURFACE TOOL GUIDANCE, DATA TRANSFER, ETC.)  
 340/853.3 .selective control of subsurface equipment  
 340/853.4 ..In horizontal or inclined drilling or passage
- 2 340/853.6 (0 OR, 2 XR)  
 Class 340 : COMMUNICATIONS: ELECTRICAL  
 340/853.1 WELLBORE TELEMETERING OR CONTROL (E.G.,  
 SUBSURFACE TOOL GUIDANCE, DATA TRANSFER, ETC.)  
 340/853.3 .selective control of subsurface equipment  
 340/853.6 ..Control of drill bit or apparatus (e.g.,  
 steering, speed, etc.)
- 2 340/854.3 (0 OR, 2 XR)  
 Class 340 : COMMUNICATIONS: ELECTRICAL  
 340/853.1 WELLBORE TELEMETERING OR CONTROL (E.G.,  
 SUBSURFACE TOOL GUIDANCE, DATA TRANSFER, ETC.)  
 340/854.3 .Using a specific transmission medium (e.g.,  
 conductive fluid, annular spacing, etc.)
- 2 340/854.5 (0 OR, 2 XR)  
 Class 340 : COMMUNICATIONS: ELECTRICAL

10625933\_CLSTITLES.txt

340/853.1 WELLBORE TELEMETERING OR CONTROL (E.G.,  
SUBSURFACE TOOL GUIDANCE, DATA TRANSFER, ETC.)

340/854.3 .Using a specific transmission medium (e.g.,  
conductive fluid, annular spacing, etc.)

340/854.5 ..wellbore casing or ground

2 340/854.6 (1 OR, 1 XR)  
Class 340 : COMMUNICATIONS: ELECTRICAL

340/853.1 WELLBORE TELEMETERING OR CONTROL (E.G.,  
SUBSURFACE TOOL GUIDANCE, DATA TRANSFER, ETC.)

340/854.3 .Using a specific transmission medium (e.g.,  
conductive fluid, annular spacing, etc.)

340/854.6 ..Electromagnetic energy (e.g., radio  
frequency, etc.)

2 340/854.8 (1 OR, 1 XR)  
Class 340 : COMMUNICATIONS: ELECTRICAL

340/853.1 WELLBORE TELEMETERING OR CONTROL (E.G.,  
SUBSURFACE TOOL GUIDANCE, DATA TRANSFER, ETC.)

340/854.3 .Using a specific transmission medium (e.g.,  
conductive fluid, annular spacing, etc.)

340/854.6 ..Electromagnetic energy (e.g., radio  
frequency, etc.)

340/854.8 ...Near field coupling (e.g., inductive,  
capacitive, etc.)

2 340/855.4 (0 OR, 2 XR)  
Class 340 : COMMUNICATIONS: ELECTRICAL

340/853.1 WELLBORE TELEMETERING OR CONTROL (E.G.,  
SUBSURFACE TOOL GUIDANCE, DATA TRANSFER, ETC.)

340/855.4 .Pulse or digital signal transmission

2 340/856.1 (0 OR, 2 XR)  
Class 340 : COMMUNICATIONS: ELECTRICAL

340/853.1 WELLBORE TELEMETERING OR CONTROL (E.G.,  
SUBSURFACE TOOL GUIDANCE, DATA TRANSFER, ETC.)

340/856.1 .In horizontal or inclined passage arrangement

2 340/856.3 (0 OR, 2 XR)  
Class 340 : COMMUNICATIONS: ELECTRICAL

340/853.1 WELLBORE TELEMETERING OR CONTROL (E.G.,  
SUBSURFACE TOOL GUIDANCE, DATA TRANSFER, ETC.)

340/856.3 .Including particular sensor

2 367/81 (0 OR, 2 XR)  
Class 367 : COMMUNICATIONS, ELECTRICAL: ACOUSTIC WAVE  
SYSTEMS AND DEVICES

367/81 WELLBORE TELEMETERING

2 702/7 (0 OR, 2 XR)  
Class 702 : DATA PROCESSING: MEASURING, CALIBRATING, OR  
TESTING

702/1 MEASUREMENT SYSTEM IN A SPECIFIC ENVIRONMENT

702/2 .Earth science

702/6 ..well logging or borehole study

702/7 ...By induction or resistivity logging tool